7th ALL Unit 1 Answers

Day 1

1. +9 (OK if you don't write the + sign) 2. -50 (must have the – sign) 3. -53 4. +7 5. -1200 6a. 12 6b. the absolute value sign shows that they must have moved backwards 4 yards, although it is a positive distance 7. 29 8. 6 9. 0 10. 11 11. 14 12. 18 13. 10 14. 3 or -3 15. Cross off -|7 + 3|; the others equal 10 16. Circle |-21| 17. It is always true. Consider the case when B is a negative number; then the expressions will be equal. Then consider the case when B is non-negative; A - |B| will always be less than A + B. Plug in some numbers to try and find a counterexample, and look for patterns.

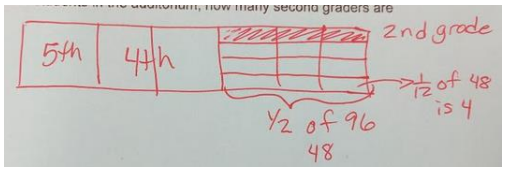
Day 2

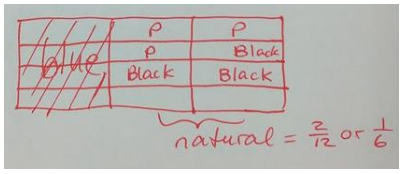
1. 5 2. 0 3. 2 4. 1 5. 13 6. -18 7. -19 8. -8 9. -12 10. 11 11. -6 12. -3 13. Answers may vary 14. Answers may vary. Example: -12 = -5 – 7 15. Answers may vary. Example: -75 = -25 + -50 16. 2682 ft 17. 13 18. 21 degrees 19. $1.25 20. $57 21. 11 22. 171 feet
29. 30.

Day 3

1. 60 2. -64 3. 30 5. -45 5. -11 6. -5 7. 4 8. -120 9. -2 10. -15 11. 16 12. -12 13. 648 14. -108 15. 0 16. -3 17. -3 18. -6 19. 2 20. 4 21. -2 22. 45 meters below sea level, or -45 23. -975 meaning in 15 days you will lose 975 hairs 24. -4(12) meaning she spent $48, or 100-4(12) meaning she has $52 left on the card 25. All answers are -5
26. A negative fraction means either the numerator OR the denominator OR the quotient is negative; one at a time.

Day 4

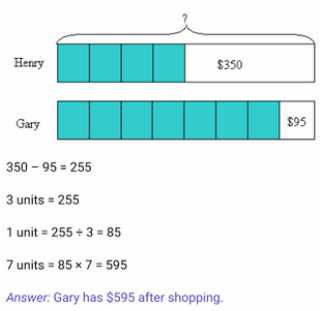
1. 

2. 

3. 2/3 4. -11/2 5. -43/8 6. -35/8 7. -19/12 8. -321/40 9. 103/20 10. 87/40

Day 5

1. -5/12 2. 4/5 3. 7/9 4. -5/6 5. -6/7 6. -164/15 7. 77/20 8. -45/4 9.

10. 

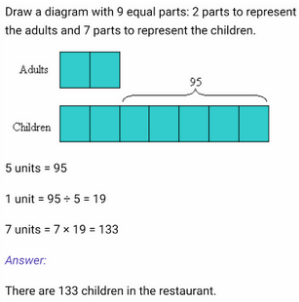
11. -18/11

12. -40/27

13. -29/363

14. 387/418

15. -9/10 16. -32/27 17. 10/19 18. -1/12 19. 52/161 20. -74/45



Day 6

1) -7.05 2) $-0.\overline{4}$ 3) -0.425 4) -0.66 5) $2.1\overline{6}$ 6) -0.375 7) -9/10 8) 17/50 9) 8/99 10) 5/9 11) 111/200 12) -70,001/10,000 13) 25,347/100,000 14) -16/5 15) 53/55 16) 500/99 17) 41/333 18) 169/555 19) 11749/150 20) 2.3 21) example: 6/10 22) yes, Archimedes was right because 3 1/7 = 3.1428… and 3 10/71 = 3.1308… and pi lies between those two numbers